

AT-S24 Version 2.2.2 Management Software for the AT-8200XL Series Fast Ethernet Switches

Software Release Notes

Please read this document before you begin to use the AT-S24 Version 2.2.2 management software.

Supported Platforms

Version 2.2.2 of the AT-S24 management software is supported on the following Allied Telesyn switches:

- AT-8224XL Fast Ethernet Switch
- AT-8216FXL/MT Fast Ethernet Switch
- AT-8216FXL/VF Fast Ethernet Switch
- AT-8216FXL/SC Fast Ethernet Switch
- AT-8288XL/MT Fast Ethernet Switch
- AT-8288XL/SC Fast Ethernet Switch
- AT-D8224XL Fast Ethernet Switch

This version supports the following expansion modules:

- AT-A14 100/1000Base-T Expansion Module
- AT-A15/SX 1000Base-SX Expansion Module
- AT-A15/LX 1000Base-LX Expansion Module
- AT-A16 100Base-FX Expansion Module
- AT-A17 100Base-FX Expansion Module
- AT-A18 10/100Base-TX Expansion Module
- AT-A19 100Base-FX Expansion Module

For further information on the switches and expansion modules supported by the software, refer to Appendix C in the *AT-S24 Version 2.01 User's Guide*.

Product Documentation

For hardware installation instructions, refer to the following guide:

- *AT-8216FXL/MT, AT-8216FXL/VF, AT-8216FXL/SC, AT-8224XL, AT-D8224XL, AT-8288XL/MT, and AT-8288XL/SC Installation Guide (PN 613-10811-00 Rev C)*

For management instructions, refer to the following guide:

- *AT-S24 V2.01 Management Software User's Guide (PN 613-10809-00 Rev D)*

Both guides are available from the Allied Telesyn web site at www.alliedtelesyn.com.

New Feature in Version 2.2.2

- Web Browser Management

The option for disabling web browser management on the switch has been enhanced. Disabling web browser management now increases protection to the switch from virus attacks, such as from Code Red.

Resolved Issues in Version 2.2.2

- MIB object dot1dBaseNumPorts

The MIB object dot1dBaseNumPorts always returned the value 0. This has been corrected.

- SNMP Management Program and MAC Addresses

A switch did not always return the correct MAC addresses when queried by a SNMP management program. This problem has been resolved.

New Features in Earlier Version 2.2.0

- New Multiple VLAN Mode - Selectable Ports Edition

This version of the management software includes a new version of the Multiple VLAN Mode. This version is called the Selectable Ports Edition and it allows you to modify the VLANs that are automatically created when the Multiple VLAN Mode is activated.

The pre-existing Multiple VLAN Mode described in Chapter 5 of the *AT-S24 V2.01 Management Software User's Guide* has been renamed to Preset Ports Edition. The function of this mode has not changed. When you activate this mode, the management software automatically assigns each port to a separate VLAN along with one common tagged port, the last port on the switch, which functions as an uplink port. VLANs created with this Multiple VLAN Mode cannot be modified or deleted.

The new Selectable Ports Edition does allow for some modification of the VLANs. When you activate this mode, each port is assigned to a separate VLAN along with one tagged port which functions as an uplink port, much the same as the Preset Ports Edition.

However, there are several differences. One of the more important differences is that the Selectable Ports Edition uses Port 1 on the switch as the uplink port, not the last port as in the Preset Port Edition. Another significant difference between the two modes is that you can add and remove ports from the VLANs in the Selectable Ports Edition. To modify a VLAN, you do the following:

1. From the Virtual LAN/QoS menu, select *Port to VLAN configuration*. The management software displays a list of the ports on the switch and the name of the VLAN to which each port is assigned.
2. Select the port whose VLAN assignment you want to change. The management software displays the VLANs window, which lists all of the VLANs on the switch.

3. Select the VLAN to which you want to assign the port. The management module changes the port assignment and updates the VLANs window to reflect the change.

The names of the VLANs displayed in the VLANs window contain the following prefixes:

- UV Uplink VLAN: This VLAN consists of Port 1. This port is a tagged port in all of the CV VLANs and functions as the uplink port.
- CV Client VLANs: These VLANs consist of two ports, Port 1 and one untagged port.
- NV Network VLANs: These six VLANs, located at the end of the VLANs list in the VLANs window, can be used to create VLANs that are separate from the Multiple VLAN Mode.

Note

The AT-S24 software still features the 802.1Q Tag VLAN Mode. You can use this mode to create your own tagged and port-based VLANs. For background information on VLANs and for instructions on how to change the VLAN mode of a switch, refer to Chapter 5 in the *AT-S24 V2.01 Management Software User's Guide*.

Resolved Issues in Earlier Version 2.2.0

- Static MAC Addresses

This version supports static MAC addresses. You can enter up to 255 static address per port. For instructions on displaying and modifying the static MAC address table, refer to Chapter 4 in the *AT-S24 V2.01 Management Software User's Guide*.

- Web-based Management Session and the Graphical Switch Image

Previous versions of the management software did not display the graphical image of an AT-8224XL Switch or AT-D8224XL Switch in a web-based Omega management session. This problem has been resolved. For further information on the graphical image, refer to Chapter 1 in the *AT-S24 V2.01 Management Software User's Guide*. (This software version does not support the graphical image for the AT-8216FXL Switch or the AT-8288XL Switch.)

- Redundant Power Supply (RPS) Status

The Diagnostics window now includes status information on an RPS, if installed.

- Web Browser Management of an AT-D8224XL Series Switch

Previous versions of the management program did not allow you to manage the AT-D8224XL Switch (DC version) using a web browser. This problem has been resolved.

- Updating the MAC Address Table and the Address Resolution Protocol (ARP) Table

The MAC address table and the ARP table are now properly updated when a link is lost to an end node.

- Port Trunks and Static MAC Addresses

Disconnecting the cables of a port trunk from the switch caused the MAC addresses learned dynamically on the ports to be converted into static MAC addresses. This problem has been resolved. MAC addresses learned dynamically on a port trunk remain as dynamic addresses.

- Upgrading the AT-S24 Management Software Using TFTP

Previous versions of the management software did not allow you to download a new version of the AT-S24 software onto a switch using TFTP. This problem has been resolved. For instructions on how to download software using TFTP, refer to Chapter 8 in the *AT-S24 Version 2.01 User's Guide*.

- Port Mirroring with Expansion Modules

This version of the management software supports port mirroring on expansion modules.

New Features in Earlier Version 2.01

- Multiple VLAN Mode (renamed Preset Ports Edition in Version 2.2.0)

AT-S24 Version 2.01 has a new feature called the Multiple VLAN Mode. Activating this mode automatically places each port in a separate VLAN along with a tagged uplink port. This highly segmented configuration is useful in situations where the traffic generated by each end node or network segment connected to a port on the switch needs to be kept separate from all other network traffic. For further information on this feature, refer to the section "Activating and Deactivating the Multiple VLAN Mode" in Chapter 5 of the **AT-S24 Version 2.01 User's Guide**.

- Port Security Enhancement

The port security feature has been expanded. You can now set a maximum value for the number of MAC addresses each port on the switch can learn. Once the maximum value has been reached, the port will discard packets with unknown addresses. This can prevent unauthorized end nodes from accessing switch ports. For further information on this feature, refer to the section "Configuring Port Security" in Chapter 3 of the **AT-S24 Version 2.01 User's Guide**.

- Priority Queuing

You can now adjust the algorithm used by the management software to handle packets in the normal and high priority queues. The default setting specifies that packets in the high priority queue receive six times more importance than packets in the normal queue. You can adjust this from a low of one to one, where packets in the two queues are handled equally, to a high of twelve to one, where high priority packets receive twelve times more importance than packets in the normal priority queue. For further information on this feature, refer to the section "Configuring Switch Priority Queuing" in Chapter 5 of the **AT-S24 Version 2.01 User's Guide**.

- Clearing Dynamic MAC Addresses

AT-S24 now contains a command for clearing all dynamic MAC addresses from the MAC address table. For information on the command, refer to the section “Clearing All Dynamic MAC Addresses” in Chapter 4 of the **AT-S24 Version 2.01 User’s Guide**.

Resolved Issues in Earlier Version 2.01

- SNMP Network Manager and Expansion Modules

You can use an SNMP network manager to view status information on the expansion modules installed in the switch.

- “newRoot” and “topologyChange” Traps

The management software now properly transmits the STP “newRoot” and “topologyChange” traps.

- IGMP and Multicast Address Entries

Disabling IGMP on the switch automatically deletes all multicast address entries.

- Spanning Tree Protocol and BPDU Packets

The STP algorithm now handles improperly configured BPDU packets from other devices, reducing the possibility of unexpected network loops in some environments.

- Get Port From MAC Address Selection

The Get Port From MAC Address selection in the MAC Address menu now works correctly.

Operational Notes

- Web Browser User Name and Password

If you assign a password to Omega, the Omega interface will prompt you for both a user name and the password when you start a web browser management session. The user name is “admin”. The user name cannot be changed.

- Spanning Tree Protocol (STP) and Port Trunking

Do not activate STP on ports that will be part of a port trunk. You should check to be sure that STP has been disabled on the ports before you create a port trunk.

- Link Up and Link Down Traps

This version of the switch software sends a Link Up or Link Down trap whenever a cable is connected or disconnected from a port trunk. However, instead of sending only one trap, the software sends two. The extra trap does not affect the network operations of the switch.

- Telnet and Local Management Sessions

You cannot run both a Telnet and a local management session on a switch at the same time. If you cannot establish a Telnet session to an AT-8200XL Series switch, someone else might already be managing the switch locally, or the network administrator did not properly quit from the last local management session on the switch. (Omega has a timeout feature where it will automatically end a management session if it detects no management activity after a specified period of time. The default setting is 5 minutes. This value is adjustable. For instructions, refer to Chapter 7 in the **AT-S24 Version 2.01 User's Guide**.)

- Configuring Port Mirroring Using an SNMP Network Manager

You can use an SNMP network manager to configure port mirroring. The MIB objects are located as follows:

```
.alliedTelesyn(207)
.mibObject(8)
.fstswitchMib(32)
.fstswitchGlobalGroup(1)
```

You must set the following MIB objects:

```
.fstswitchMirroringSourcePort(4)
.fstswitchMirroringDestinationPort(4)
.fstswitchMirrorState(6)
```

For further information on port mirroring, refer to Chapter 3 in the *AT-S24 Version 2.01 User's Guide*.

- IGMP Snooping and VIDs

When IGMP snooping is disabled, the AT-S24 software supports VID numbers 2 through 4096. When IGMP snooping is enabled, the management software supports VID numbers 2 through 2047.

- Head of Line (HOL) Blocking

Head of Line blocking is disabled on the switch.

- Supported MIBs

Version 2.2.0 supports the following MIBs:

```
RFC1213MIB(MIB-2)
RFC1573MIB(IANAIfTableMIB)
RFC1643MIB(Ether-LikeMIB)
RFC1493MIB(BridgeMIB)
PrivateMIB(FSTSWITCHMIB, AT-IFMIB)
```

Limitations

- Upgrading the AT-S24 Management Software Switch to Switch

You cannot upgrade the AT-S24 management software switch to switch. To upgrade switch software, you can use TFTP or the RS232 port and XModem. For further information, refer to Chapter 8 in the *AT-S24 Version 2.01 User's Guide*.

- Multiple VLAN Mode and Port Security

You cannot use the port security feature if the switch is operating in a Multiple VLAN Mode.

- BOOTP and Dynamic Host Configuration Protocol (DHCP)

This version of the management software does not support BOOTP or DHCP. An AT-8200XL Series Switch cannot obtain its IP address from a BOOTP or DHCP server.

- Statistics Counters

Alignment errors and CRC errors are reported in the same counter. Also, the transmit statistics multicast counter is incremented by flooding unicast traffic.

- IGMP

AT-S24 supports IGMP Version 1.0, but not Version 2.0.

- RMON and Uplink Ports

RMON alarms and the RMON log are not generated for uplink ports.

Contacting Allied Telesyn Technical Support

United States and Canada Tel: 1 800 428 4835 (option 4) Fax: 1 503 639 3716	Europe, Africa, and the Middle East Tel: 00 800 287 877 67* or +31 20 711 4333 (Finland only: Tel: 990 287 877 67)
Asia and Southeast Asia Tel: (++65) 381 5612 Fax: (++65) 383 3830	Australia Tel: 1 800 000 880 Fax: 2 9438 4966
New Zealand Tel: 0800 45 5782	

(* Valid in Austria, Belgium, France, Germany, Ireland, Italy, Luxembourg, The Netherlands, Norway, Sweden, Switzerland and the United Kingdom. For other European countries not listed here, ring +31 20 711 4333.)

Technical Support E-mail Addresses

United States and Canada

TS1@alliedtelesyn.com

Latin America, Mexico, Puerto Rico, Caribbean, and Virgin Islands

latin_america@alliedtelesyn.com

Europe

support_europe@alliedtelesyn.com

For Sales or Corporate Information

Allied Telesyn International, Corp. 19800 North Creek Parkway, Suite 200 Bothell, WA 98011 Tel: 1 (425) 487-8880 Fax: 1 (425) 489-9191	Allied Telesyn International, Corp. 960 Stewart Drive, Suite B Sunnyvale, CA 94085 Tel: 1 (800) 424-4284 (USA and Canada) Fax: 1 (408) 736-0100
-----------------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------